

Title: GUTTER FILLERS AND PACKS
WITH ENHANCED FLUID FLOW
Applicant(s): Pourdeyhimi et al.
Atty. Dkt. No.: 297/185/2

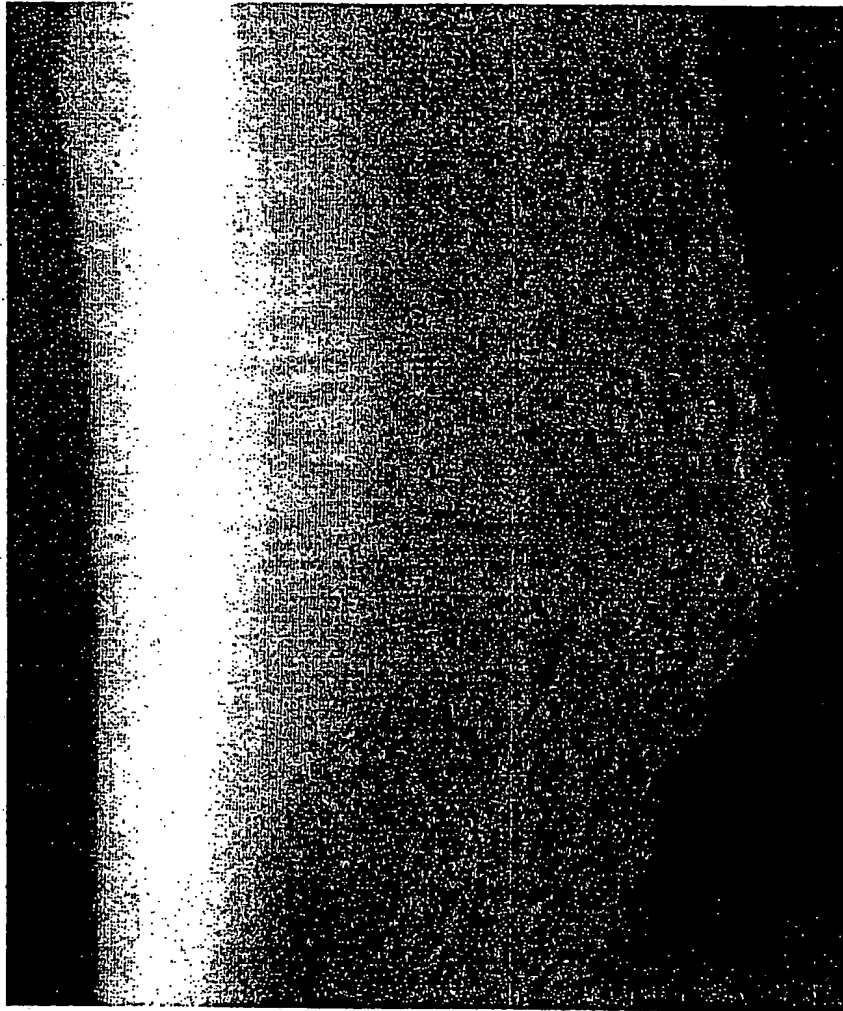


Fig. 1A

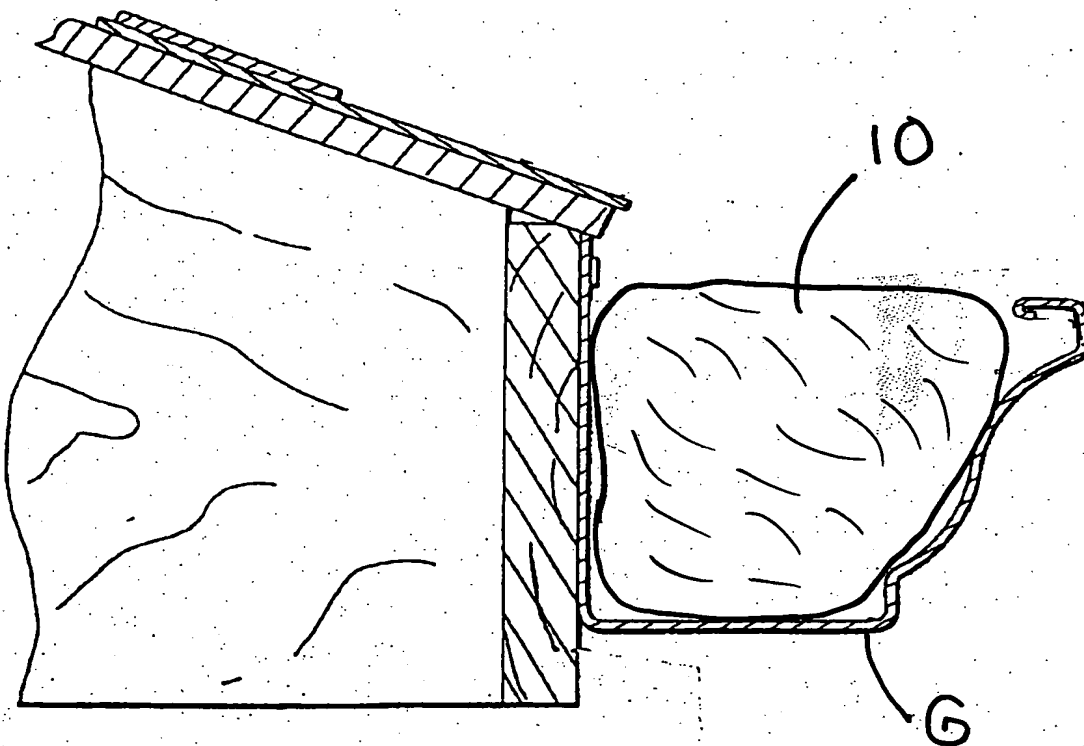


FIG. 1B

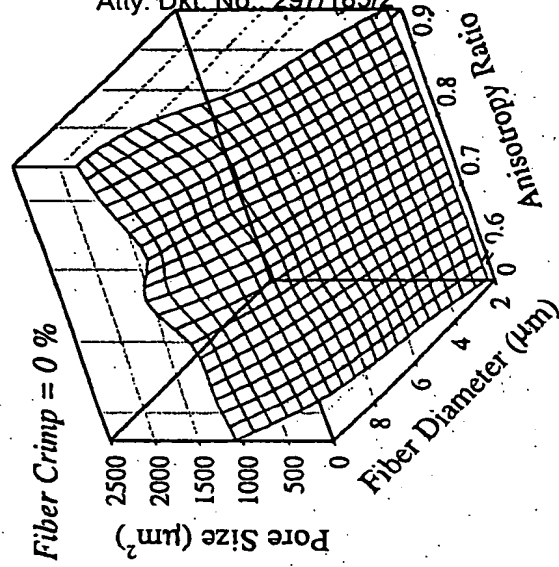


Fig. 2c

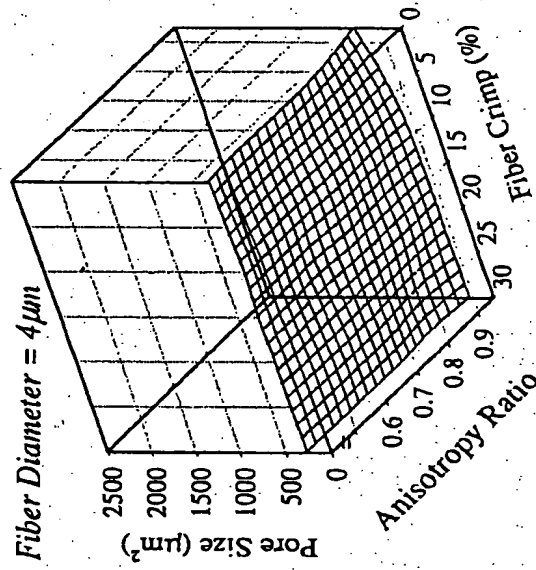


Fig. 2b

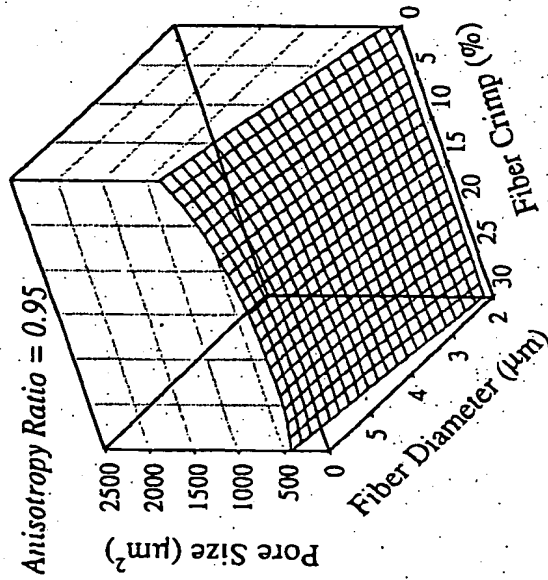


Fig. 2a

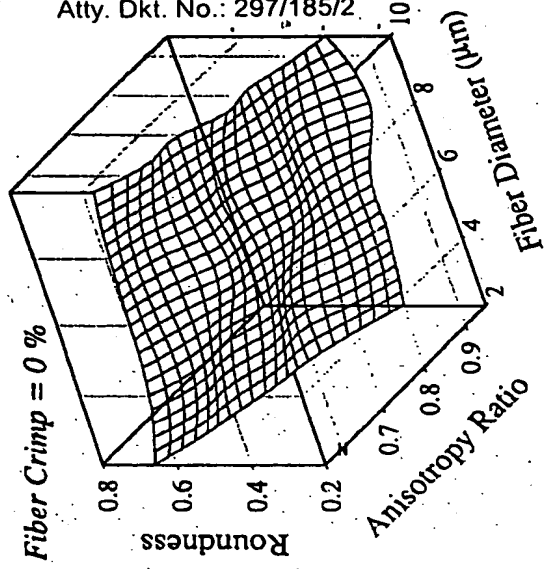


Fig. 3c

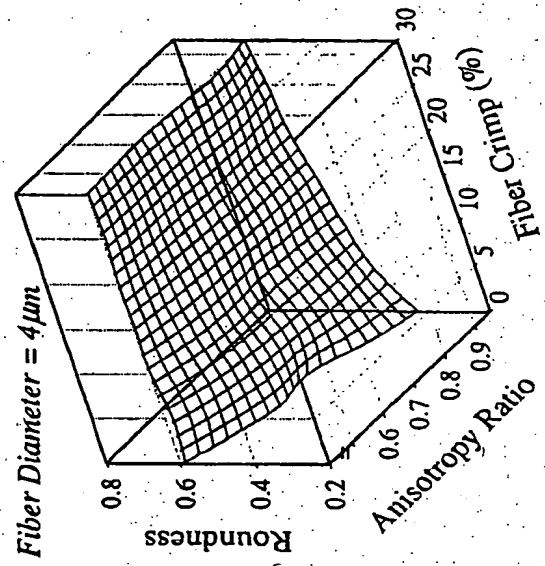


Fig. 3b

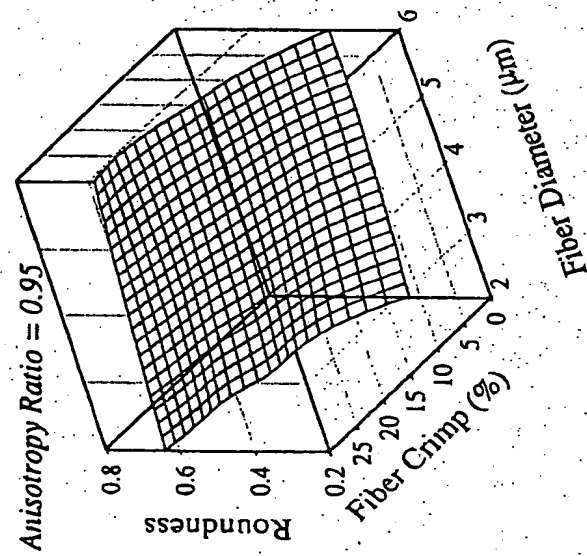


Fig. 3a

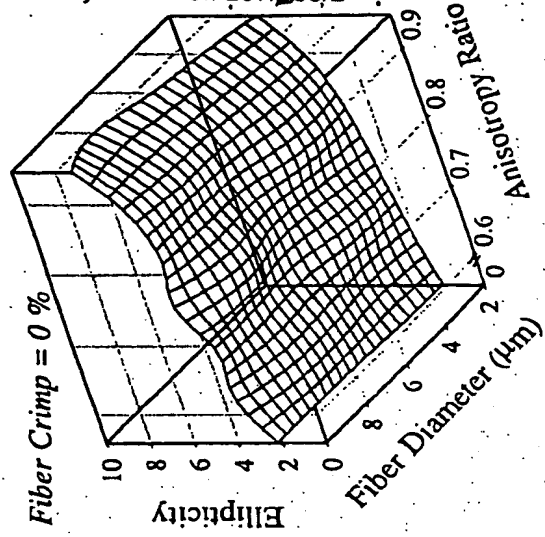


Fig. 4c

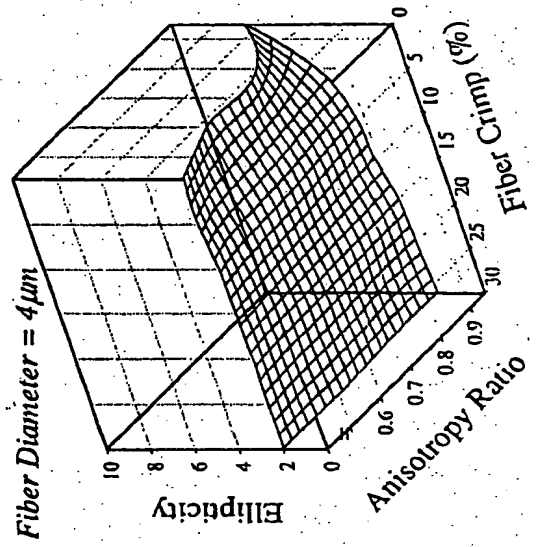


Fig. 4b

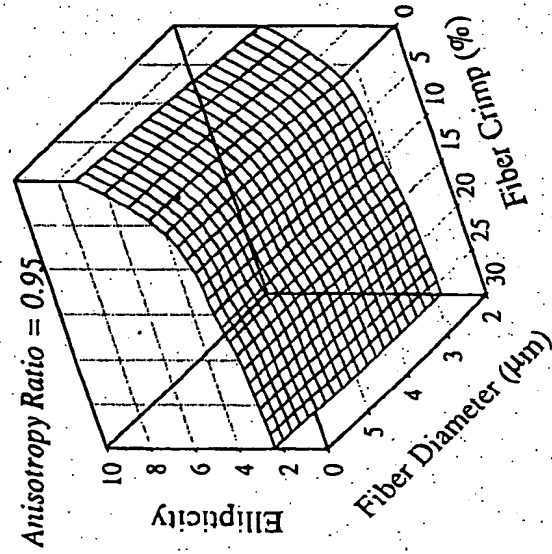
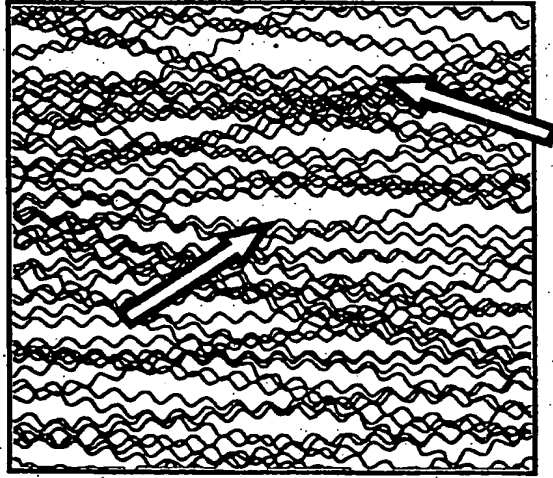


Fig. 4a

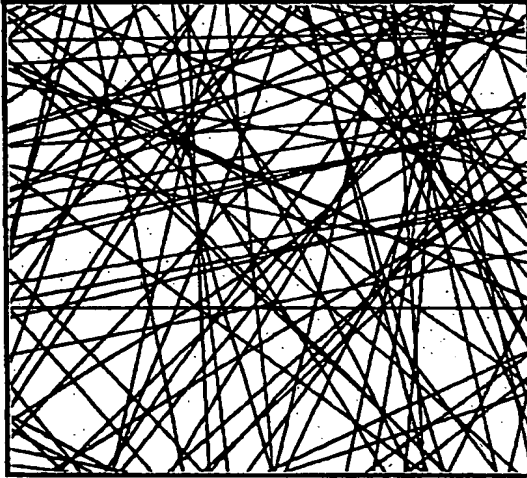
Fig. 5a



Normal ODF
Mean = 90
std dev = 10

Anisotropy Ratio = 0.95
Fiber Diameter = 6 μm
Crimp = 30 %

Fig. 5b



Random ODF
Min = 0
Max = 179

Anisotropy Ratio = 0.00
Fiber Diameter = 6 μm
Crimp = 0 %

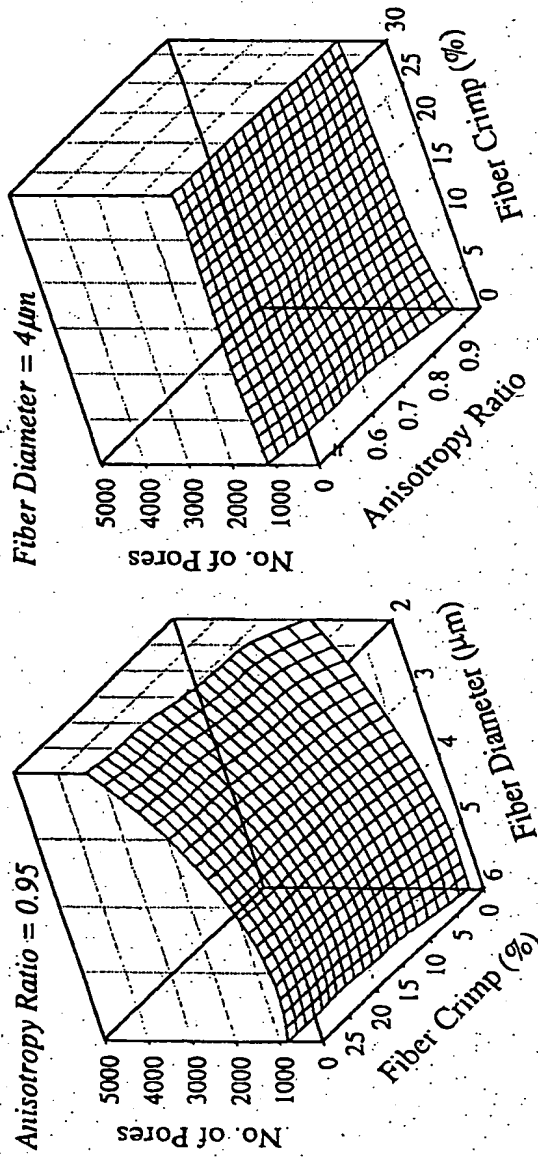


Fig. 6a

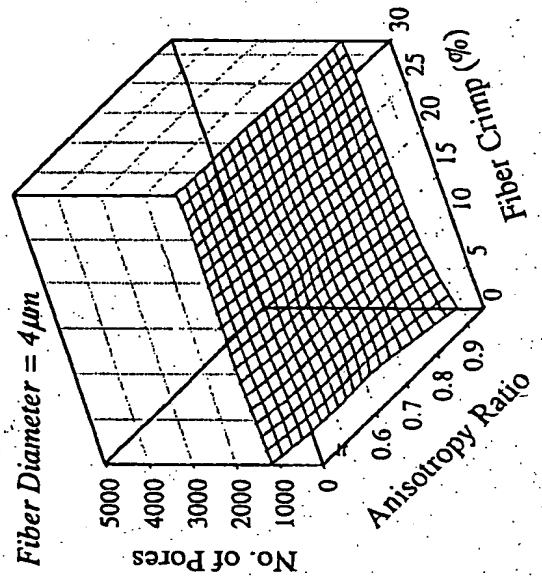


Fig. 6b

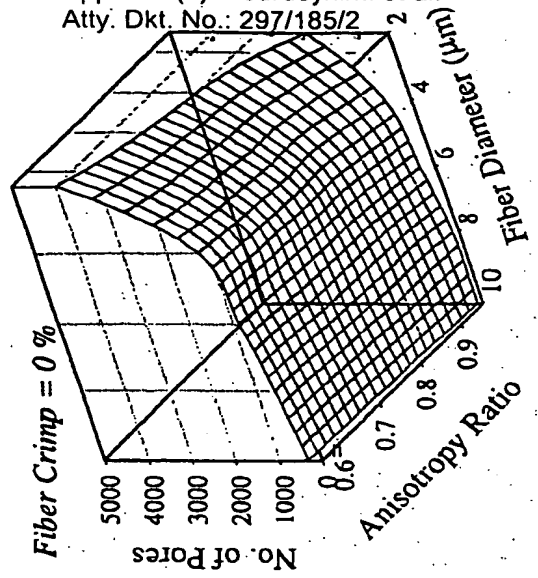


Fig. 6c

Figure 7 Fabric Type vs. Flow Rate at 4.73 liters/min
discharge

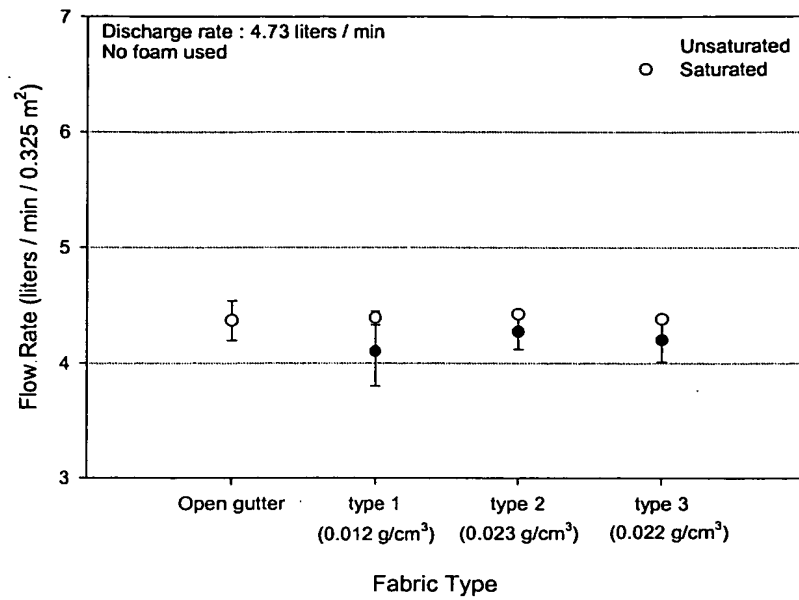
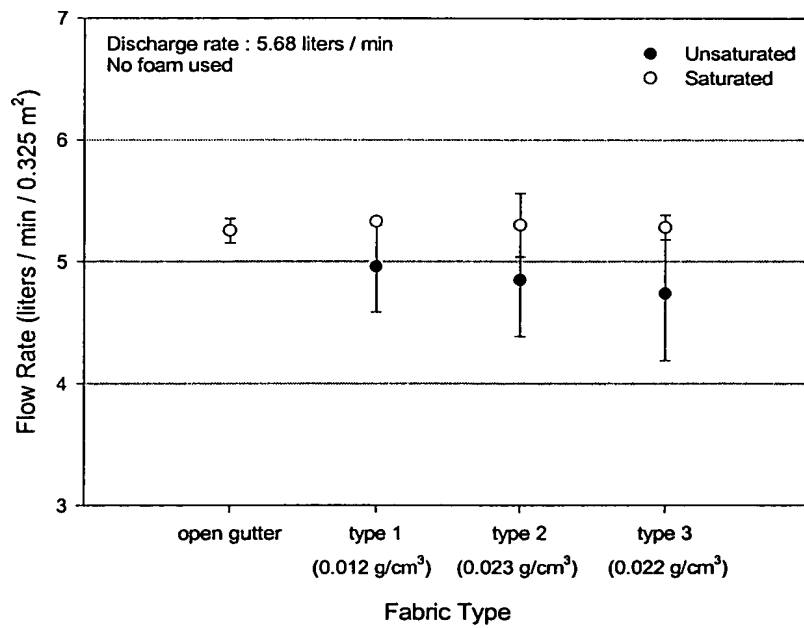


Figure 8 Fabric Type vs. Flow Rate at 5.68 liters/min
discharge



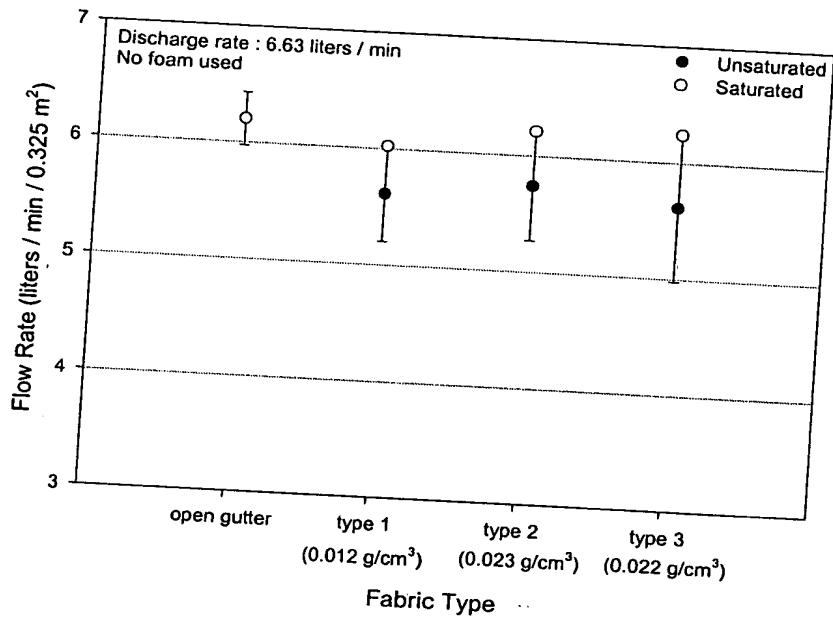


Figure 9 Fabric Type vs. Flow Rate at 6.63 liters/min discharge

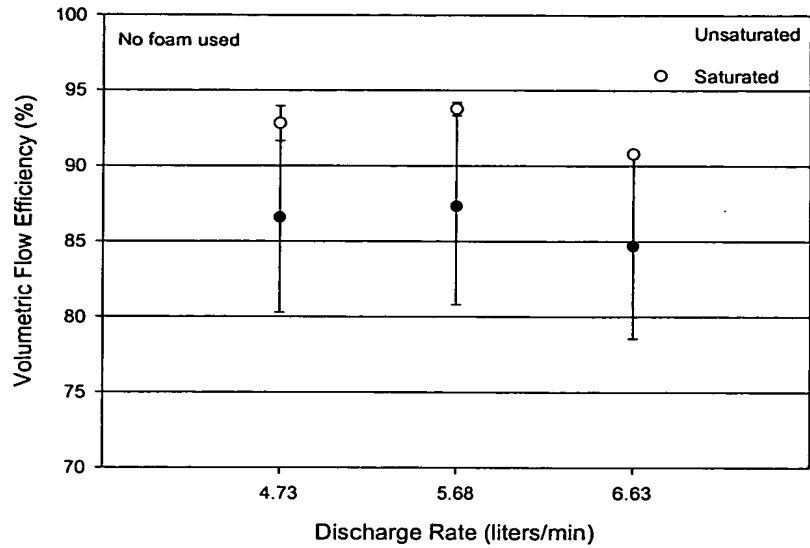


Figure 10 Vol. Flow Efficiency of Type 1 sample at different discharge rates

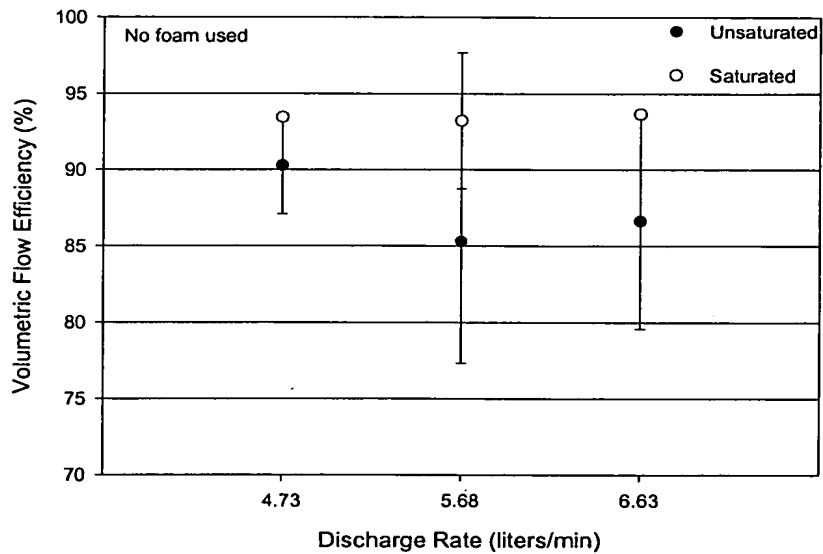


Figure 11 Vol. Flow Efficiency of Type 2 sample at different discharge rates

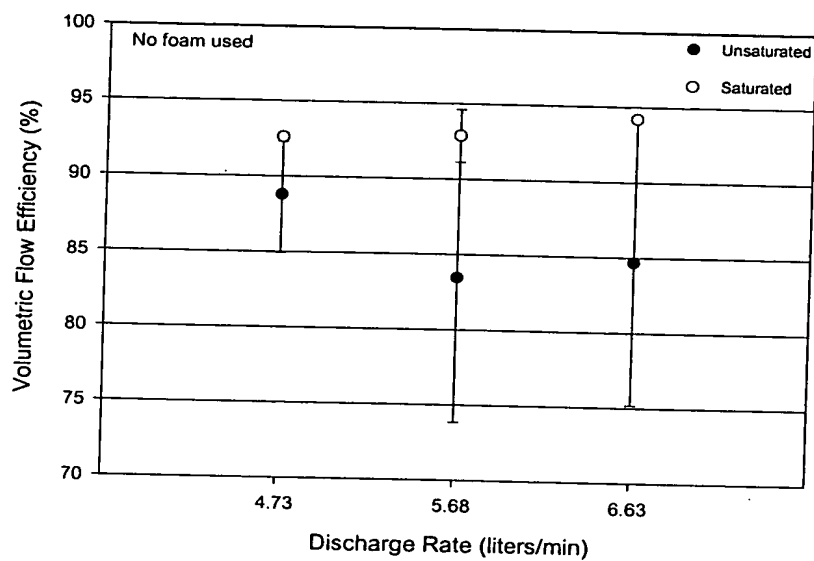


Figure 12 Vol. Flow Efficiency of Type 3 sample at different discharge rates

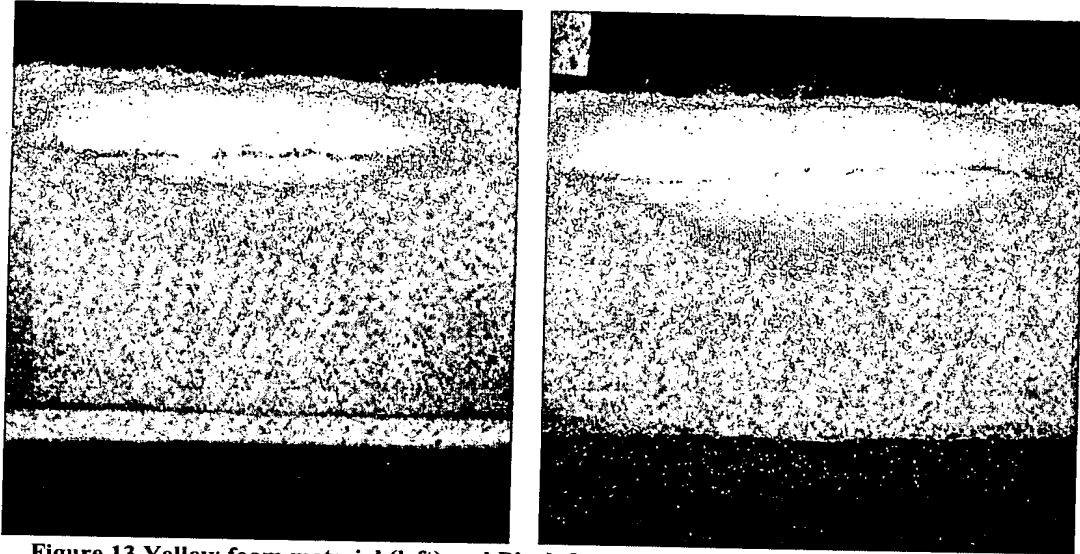


Figure 13 Yellow foam material (left) and Black foam material (right) under a highloft

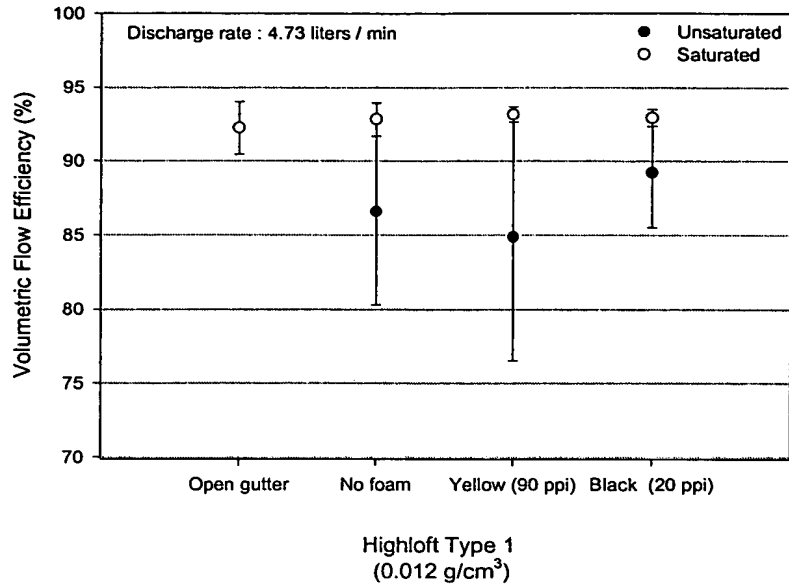


Figure 14 Type 1 (under the presence of different foams) vs. Vol. Flow Efficiency at 4.73 liters/min

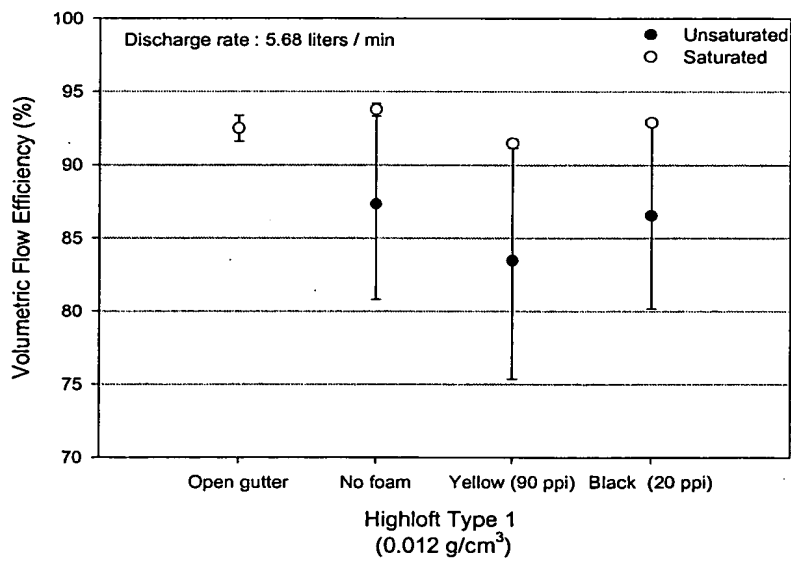


Figure 15 Highloft Type 1 (under the presence of different foams) vs. Vol. Flow Efficiency at 5.68 liters/min

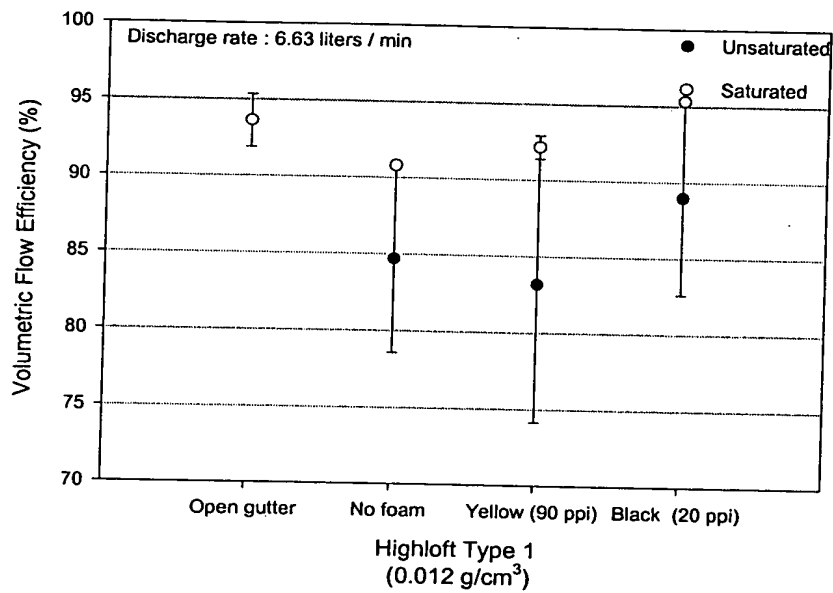


Figure 16 Highloft Type 1 (under the presence of different foams) vs. Vol. Flow Efficiency at 6.63 liters/min

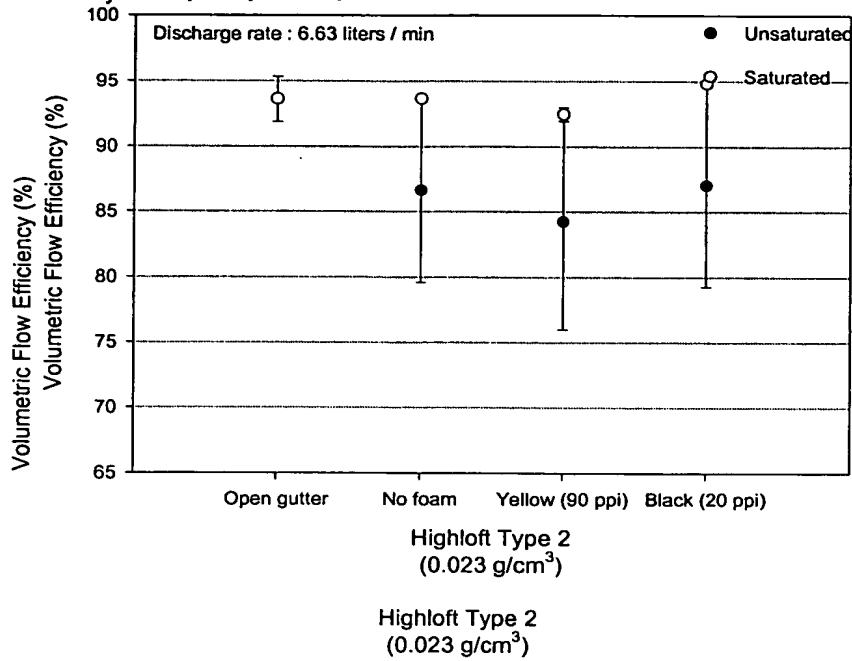


Figure 17 Highloft Type 2 (under the presence of different foams) vs. Vol. Flow Efficiency at 4.73 liters/min

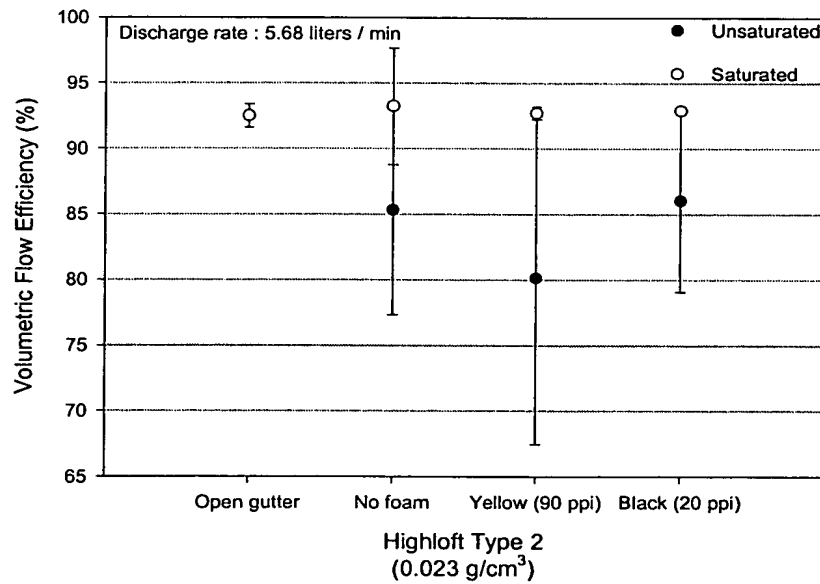


Figure 18 Highloft Type 2 (under the presence of different foams) vs. Vol. Flow Efficiency at 5.68 liters/min

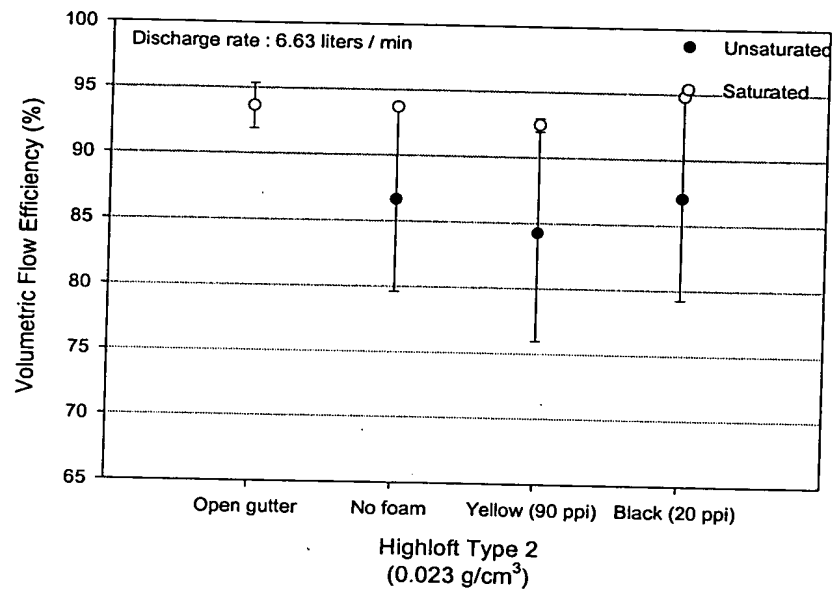


Figure 19 Highloft Type 2 (under the presence of different foams) vs. Vol. Flow Efficiency at 6.63 liters/min

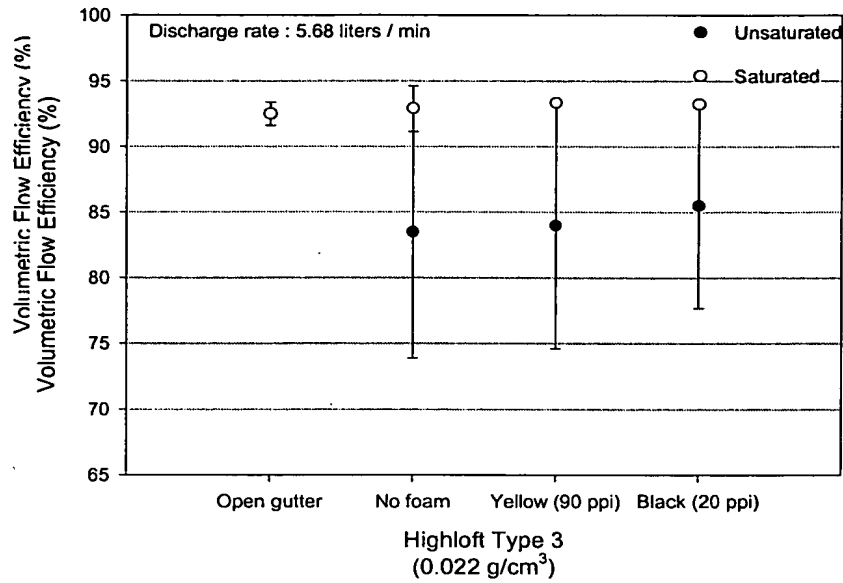


Figure 20 Highloft Type 3 (under the presence of different foams) vs. Vol. Flow Efficiency at 4.73 liters/min

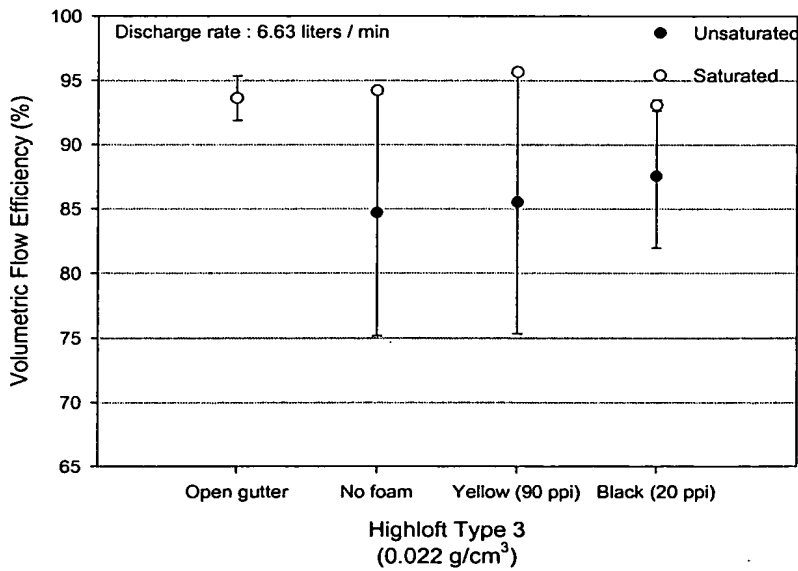


Figure 21 Highloft Type 3 (under the presence of different foams) vs. Vol. Flow Efficiency at 5.68 liters/min

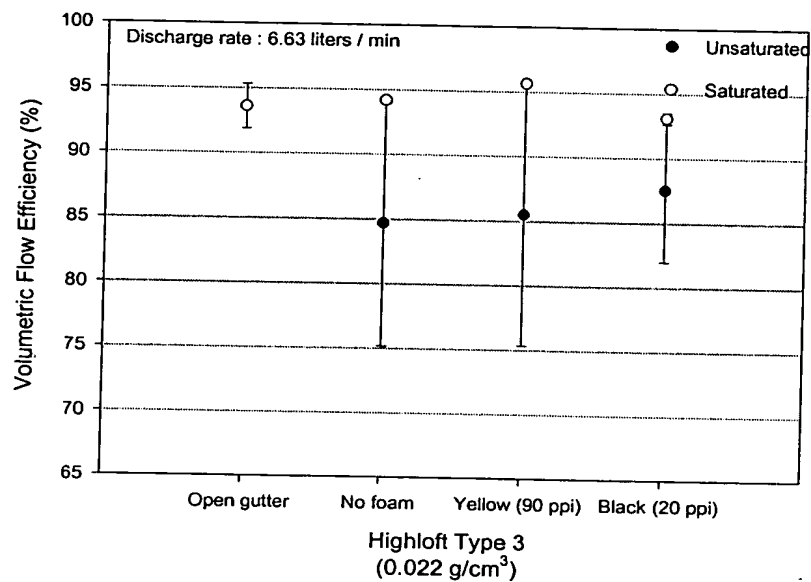


Figure 22 Highloft Type 3 (under the presence of different foams) vs. Vol. Flow Efficiency at 6.63 liters/min

Figure 23 Drainage Capacity (grams) and Specific Drainage Capacity (g/g) of samples with/without foam materials

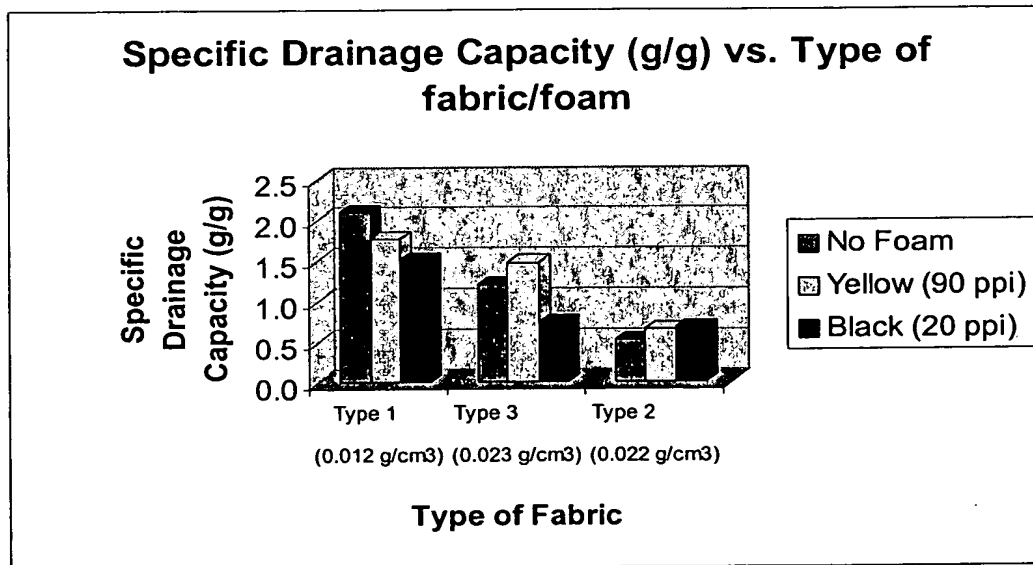
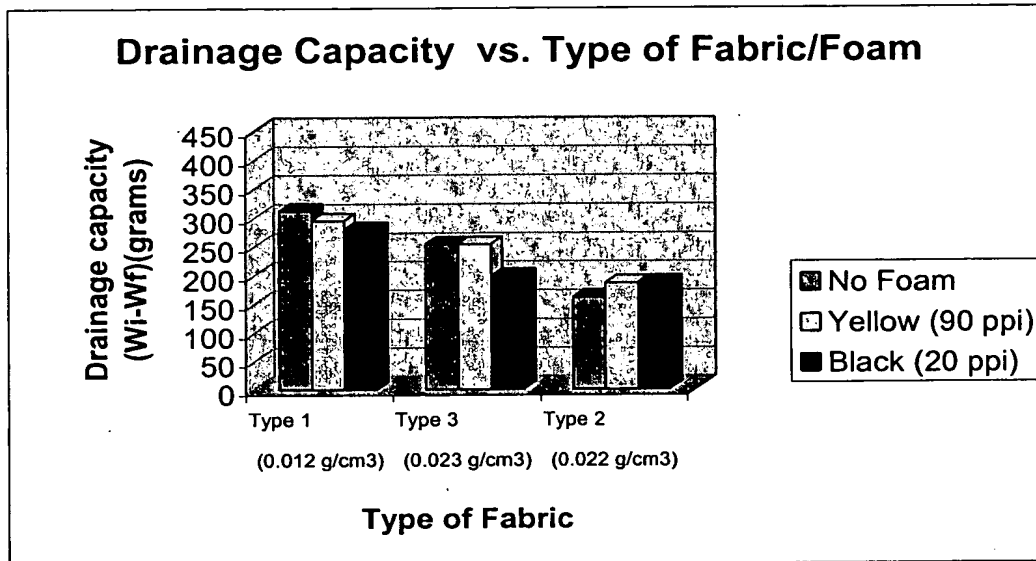


Figure 24 Drainage time for type 1 sample with/without foam materials

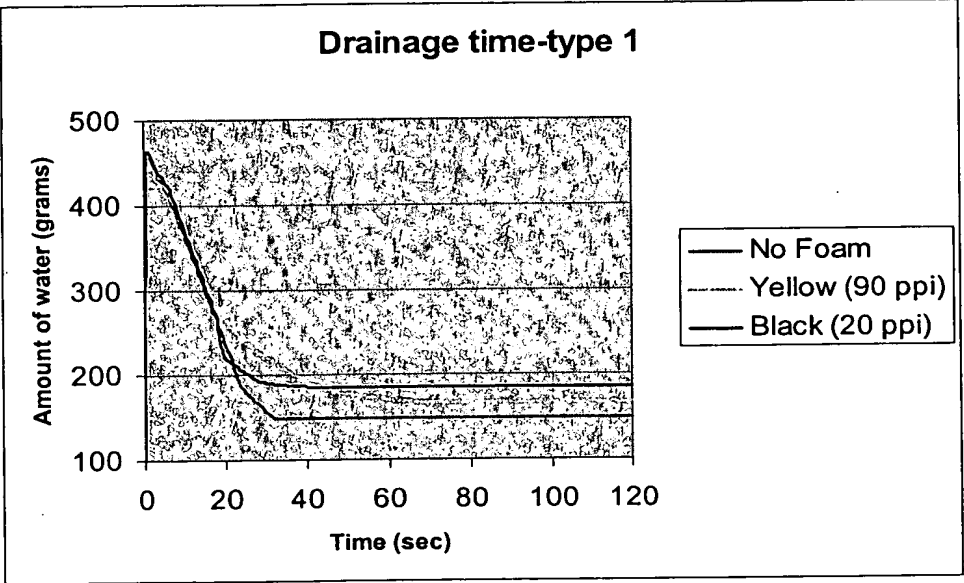


Figure 25 Drainage time for type 2 sample with/without foam materials

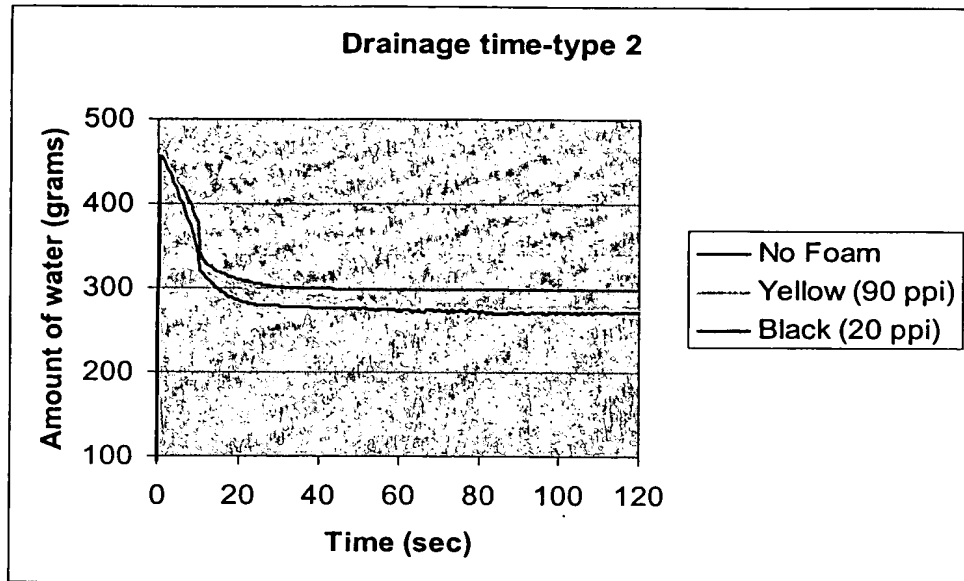


Figure 26 Drainage time for type 3 sample with/without foam materials

